

Claim Amendments

Claims 1-3 (canceled).

1           4. (previously presented) A data storage and retrieval  
2 system comprising:  
3           an optical memory constituted as a vitreous fluorescent  
4 photosensitive body selected from the group which consists of  
5 fluorescent photosensitive glass and fluorescent photosensitive  
6 vitreous ceramic constituting an information recording medium; and  
7           at least one laser for directing a beam at said memory  
8 and adapted to read stored information from and write information  
9 to be stored to said memory.

1           5. (currently amended) The system defined in claim 4  
2 wherein said memory is composed of a fluorescent ~~photo-sensitive~~  
3 photosensitive glass.

1           6. (currently amended) The system defined in claim 4  
2 wherein said memory is composed of a fluorescent photosensitive  
3 vitroc ceramic.

1           7. (previously presented) The system defined in claim 4  
2 which comprises a confocal microscope;

3           a tunable laser having light pulses at a rate of a  
4   maximum of 100 fs for reading and writing from and to said memory  
5   through said confocal microscope;  
6           a vertical scanning system and a radial scanning system  
7   for the movement or writing and excitation beams over said memory;  
8           an engine for rotating said memory; and  
9           an excitation laser having a beam perpendicular to a  
10   fluorescent beam from said memory and provided with a vertical  
11   scanner for reading said memory by a one-photon process.